

Steamfitter

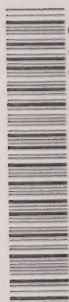
Government
Publications

Ministry of Colleges & Universities.
Apprenticeship Training

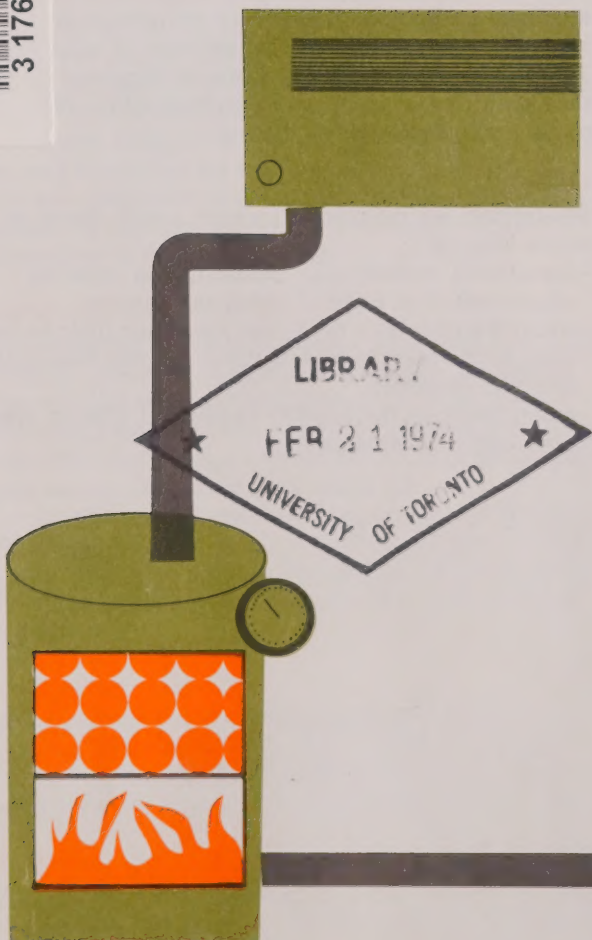
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For centuries the Romans enjoyed the pleasures of steam baths wherever their conquests led them. Archeological remains still identify the skills of the artisans of those days.

Although one of the oldest, the trade of steamfitter is today one of the most interesting due to the introduction and installation of sophisticated equipment. These technological changes are creating challenging job opportunities for trained and capable persons.

Apprenticeship training in this highly technical trade is available under the modernized manpower training program sponsored by the Ministry of Colleges and Universities.

During the life of the contract the apprentice works under the supervision of skilled and experienced journeymen to acquire the skills required to install, maintain and repair heating, cooling, process and industrial systems in offices, industrial plants and scores of other buildings.

Qualifications

Applicants for apprenticeship must be 16 years or over and have a minimum of Grade 10 standing in an Ontario secondary school or an equivalent level of education. There are no maximum age limits for apprentices but they should have an interest in mathematics, physics, metallurgy and blueprint reading.

Duties

Steamfitters are required to perform a wide range of duties including:

- installation, maintenance, servicing and repairing equipment in all types of industrial systems;
- using the necessary hand and automatic tools to perform such operations as welding, brazing, pipe cutting and unit assembly;
- using precision instruments to test and analyze systems for proper performance.

Training

Apprenticeship training for steamfitter tradesmen covers five periods of 1,800 hours each (equivalent to approximately 4½ years), consisting of practical on-the-job training and related instruction at a College of Applied Arts and Technology.

The related courses of instruction at a college are compulsory and include an eight-week basic course, an intermediate course of seven weeks and seven weeks of advanced instruction near the end of the apprenticeship contract.

Training Allowances

During his in-school instruction the apprentice's tuition fees, living allowance and travel expenses are provided by the Federal Department of Manpower and Immigration and the Ontario Ministry of Colleges and Universities, under a shared-cost agreement.

Earning While Learning

While training on the job, apprentices earn while they learn. Their wages are based on a percentage of those paid to journeymen in the same trade in the same shop. During the first year, they receive 40 per cent of the journeyman's rate, which increases to 50, 60, 70 and 80 per cent in each of the four subsequent periods.

At the conclusion of each period, apprentices must receive the recommendation of their employer before proceeding to the next period of the contract.

Certificate of Qualification

On completion of the five periods, apprentices must write a final examination. A mark of 60 per cent will entitle them to a Certificate of Apprenticeship. Apprentices obtaining a mark of 70 per cent or more will receive an inter-provincial Seal permitting them to practice in their trade in nine of Canada's ten provinces.

A Certificate of Qualification issued by the Ministry of Colleges and Universities is necessary for workers in this trade. It is issued by the Ministry on payment of a \$10 fee, and must be renewed every second year on the birth date.

Employment Prospects

The employment outlook for steamfitter tradesmen is excellent. The construction of processing plants and educational facilities is increasing and fully qualified steamfitters are required for the nuclear power stations.

Enquiries

All enquiries concerning apprenticeship should be addressed to the Director of Manpower Training or the district offices across the Province listed on the back of this leaflet.

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District Offices
Manpower Training Branch

Barrie 728-1951	Ottawa 731-7100
Belleville 968-8671	Owen Sound 376-5790
Brantford 756-5197	Pembroke 732-9994
Brockville 345-0660	Peterborough 743-4172
Callander 752-1231	St. Catharines 682-4313
Chatham 352-2800	Sarnia 337-2165
Cornwall 933-4260	Sault Ste. Marie 949-3331
Guelph 821-3770	Stratford 273-1520
Hamilton 527-9105	Sudbury 566-3071
Kenora 468-3128	Thunder Bay 345-2101
Kingston 544-5400	Timmins 267-2420
Kitchener 744-5211	Toronto 965-4211
London 438-2911	Windsor 256-8278
North Bay 474-5509	



Ontario

Ministry of Colleges & Universities
Manpower Training Branch
W. F. Davy, Director
Toronto

Jack McNie, Minister
J. Gordon Parr, Deputy Minister